

Tubular inserting device with variable rigidity

Patent Number: ☐ US5337733
Publication date: 1994-08-16
Inventor(s): BAUERFEIND HERBERT (DE); BAUERFEIND PETER (DE)
Applicant(s): BAUERFEIND HERBERT (DE); BAUERFEIND PETER (DE)
Requested Patent: ☐ EP0497781 (WO9105507), B1
Application Number: US19920849027 19920422
Priority Number(s): DE19893935256 19891023; WO1990EP01532 19900911
IPC Classification: A61B1/00; A61M25/01
EC Classification: A61B1/12B, A61B1/273D, A61B1/31B, A61M25/01
Equivalents: ☐ DE3935256, JP5503434T, ☐ WO9105507

Abstract

PCT No. PCT/EP90/01532 Sec. 371 Date Apr. 22, 1992 Sec. 102(e) Date Apr. 22, 1992 PCT Filed Sep. 11, 1990 PCT Pub. No. WO91/05507 PCT Pub. Date May 2, 1991. The inserting means comprises a flexible insertion part (14) adapted to be pushed into an object to be examined, especially the human colon (60) and including, between an inner wall (16) and an outer wall (18), an intermediate space (20) sealed towards the outside. The outer wall (18) is formed by a flexible hose which, however, cannot be inflated like a balloon by the fluid in the intermediate space (20). The inner wall (16) of the insertion part (14) likewise is formed by a hose; the latter is deformable radially inwardly by fluid introduced into the intermediate space (20) and can be caused to lie against the outer wall (18) by evacuation of the intermediate space (20). The insertion part (14) can be rendered rigid in any desired position by evacuating the intermediate space (20). It is easy to insert the corresponding instrument, e.g. the colonoscope into the object to be examined through the insertion part (14) thus fixed. The insertion part (14) becomes flexible again when the intermediate space (20) is filled with fluid, such as air.

Data supplied from the esp@cenet database - I2

BEST AVAILABLE COPY